

ABSTRACT

An antenna operable in multiple frequency bands used in a personal wireless communication device comprises a first radiating element, a second radiating element, and a feed radiating element. The first radiating element is shaped as an extended bent wire to function as an antenna for a first frequency band. The second radiating element functions as an antenna for a second frequency band. The feed radiating element has at least two ends. One end is used as a signal feed point so that first and second frequency signals can share the same signal feed point. The other end electrically connects the first radiating element to the second radiating element and forms a top loaded structure. The extended bent wire antenna effectively reduces the overall length of the antenna.